

December 16, 2014

Mr. Jeff Averill, FAIA, LEED AP  
Campus Architect  
UCLA Capital Programs – Design & Construction  
1060 Veteran Avenue, Box 951365  
Los Angeles, CA 90095-1365

**Re: *University of California Seismic Rating for 924 Westwood Boulevard***  
**(12454.00)**

Dear Jeff:

The voluntary seismic upgrade of the 10-story office building located at 924 Westwood Boulevard is complete. The upgrade consisted of fiber-wrapping seven (7) existing concrete columns from the P3 through P6 levels, as indicated on our Final CD Submission drawings dated December 10, 2013. Installation of fiber-wrap was complete as of November 21, 2014.

The building was previously evaluated for conformance with the University of California Seismic Safety Policy for seismic rating level III. Nonlinear response history analyses were performed with acceptance criteria of life safety performance for 475-year seismic hazard and collapse prevention performance for 2475-year seismic hazard. The results of the analyses indicated that the existing concrete columns supporting the discontinuous concrete shear walls had insufficient axial strength to develop the full strength capacity of the walls. These results were presented in Nonlinear Time History Analysis – Basis of Analysis, dated September 3, 2013.

The voluntary seismic upgrade mitigates the deficient strength condition of the columns supporting the discontinuous concrete shear walls. Verification calculations are provided in 100% CD Column Strengthening Calculations, dated January 9, 2014.

The Basis of Analysis, Strengthening Calculations and construction documents were peer reviewed by Tom Sabol (Englekirk Institutional).

Based on the results of our prior analyses and the completion of construction for the voluntary seismic upgrade, the expected earthquake performance of the building corresponds to the University of California seismic rating of III.

**References:**

Structural drawing for Security Pacific National Bank, Welton Beckett and Associates (6054), May 4, 1971.

Structural drawings for Security Pacific Westwood Plaza, Brandow & Johnston Associates (8810.0), September 18, 1989.

Structural drawings Final CD Submission, Nabih Youssef (12454.00), December 10, 2013.

924 Westwood Blvd Nonlinear Time History Analysis – Basis of Analysis, Nabih Youssef (12454.00), September 3, 2013.

924 Westwood Blvd 100% CD Column Strengthening Calculations, Nabih Youssef (12454.00), January 9, 2014.

UCLA 924 Westwood Boulevard – Seismic Peer Review, Englekirk Institutional (13-G130A), January 27, 2014.

University of California Seismic Safety Policy, August 25, 2011.

Sincerely,

**NABIH YOUSSEF & ASSOCIATES**



Nabih Youssef, S.E.  
Principal

Enclosure

cc: R. Hall (HMC); File 12454.00